



P-3B Orion Aircraft & Hanger Introduction



NASA Goddard Space Flight Center's Wallops Flight Facility P-3B Orion Aircraft & Hanger Introduction



Wallops Main Base



Wallops P-3B Orion Airborne Science Research Aircraft

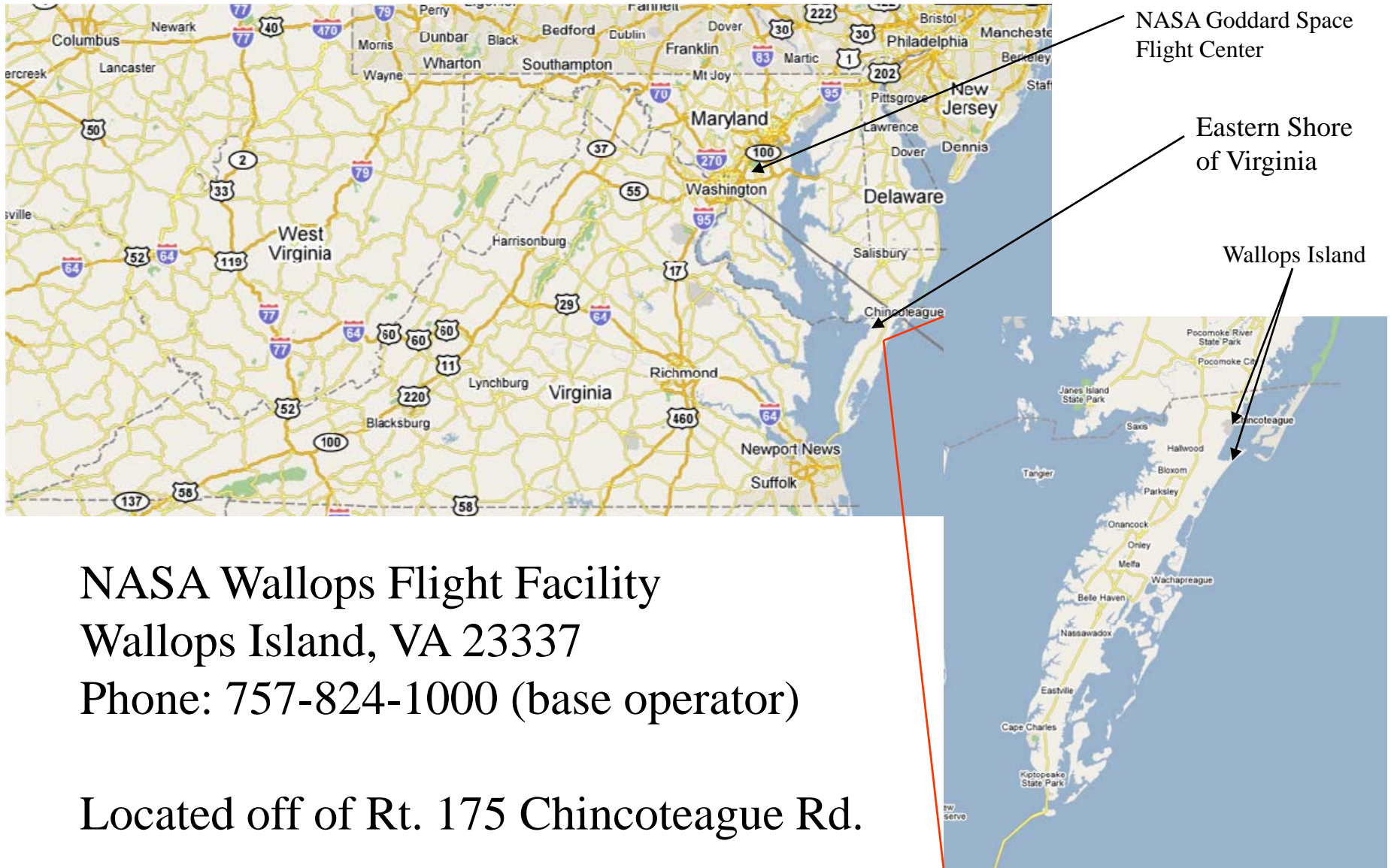
NASA Wallops Flight Facility P-3B Aircraft and N-159 Hanger





Wallops Island Location

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NASA Wallops Flight Facility
Wallops Island, VA 23337
Phone: 757-824-1000 (base operator)

Located off of Rt. 175 Chincoteague Rd.



Directions to NASA Wallops

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- **From Washington, DC / Baltimore, MD area**
 - Take Rt. 50 east to bay bridge
 - Cross bay bridge (\$2.50 toll, cash or EZPass) and follow signs for Rt. 50 east to Salisbury/Ocean City, MD
 - Follow signs that say east Rt. 50 to Rt. 13 (also known as Salisbury by-pass)
 - While on by-pass follow signs Rt. 13 south to Norfolk, by-pass road will merge with Rt. 13 south, south of Salisbury, MD
 - Continue on Rt.13 south and cross MD/VA state line
 - Take a left at first stop light in VA, Pizza Hut on left, (town is called Oak Hall, VA), this will be Rt. 175 Chincoteague Rd.
 - Continue on Chincoteague Rd. and turn left at first stoplight
 - Follow this road to main gate and security office
- **From Norfolk, VA area**
 - Take I-64 East to Northampton Blvd. Exit 182
 - Exit onto Northampton Blvd. (also known as Rt. 13) and follow to Chesapeake Bay Bridge Tunnel (\$12.00 toll, cash only, EZPass starting in November 2007)
 - Cross Chesapeake Bay Bridge Tunnel and continue north on Rt. 13
 - Approx. 60 miles north of bridge tunnel turn right in Oak Hall, VA (Pizza Hut on right) onto Rt. 175 Chincoteague Rd.
 - Continue on Chincoteague Rd. and turn left at first stoplight
 - Follow this road to main gate and security office



Main Base vs. Wallops Island

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- Wallops Flight Facility has two parts: “Main Base” and “Wallops Island”
- The Main Base is the center for most of the facility’s operations
 - Located on Rt. 175 Chincoteague Rd.
 - All experimenters will work here throughout their mission lifecycle
 - Security badges can be picked up at the main gate upon arrival (please note foreign nationals require 30 days notice prior to arrival and receiving badge)
- Access to Wallops Island requires a special badge because it is the launch site for the facility’s sounding rockets
 - There should be no reason for island access to be needed for aircraft work but if required access can be given

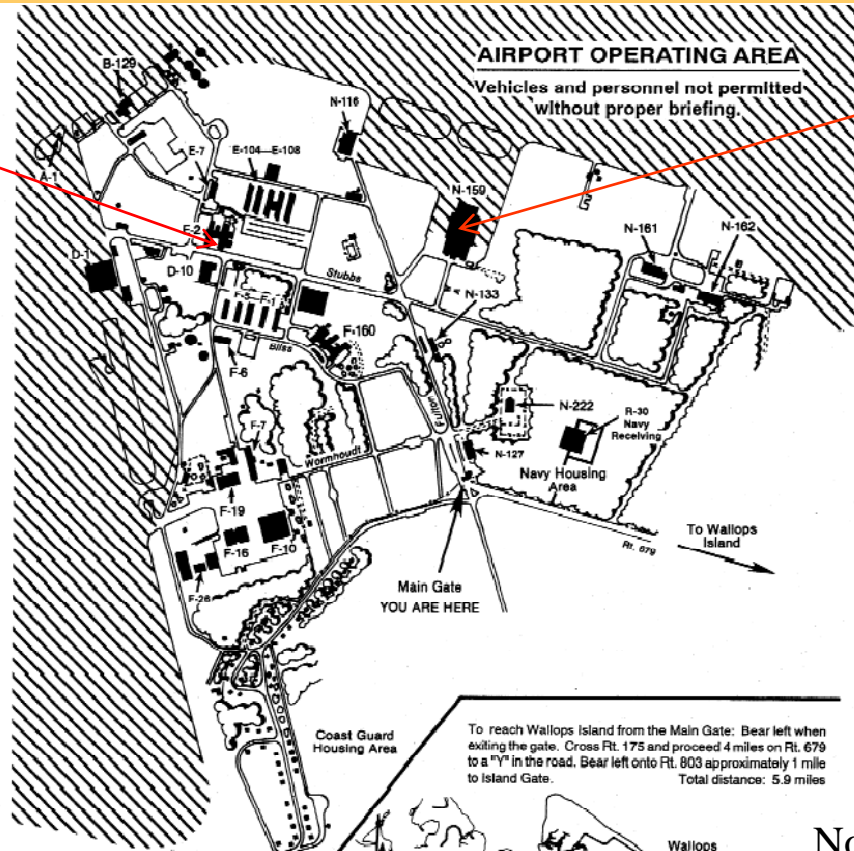




Main Base and Wallops Island Maps

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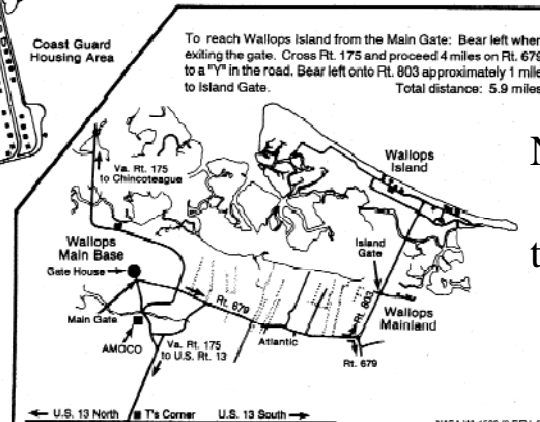
Cafeteria



P-3B aircraft hanger



National Aeronautics and Space Administration
Goddard Space Flight Center
 Wallops Flight Facility
 Wallops Island, Virginia 23337



Note: Paper copies of this map are available at the Security Office (Bldg. N-127)

Wallops Main Base Map



A Few Important NASA Rules

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- No walking, driving, or biking on runways or taxiways during or after work hours
- No entrance to rocket motor magazine area without escort
- No open toed shoes (i.e. sandals) in hanger or aircraft
- Long legged pants and/or flight suit must be worn on aircraft when flying
- Anyone flying on the aircraft is required to have medical screening
- Strict enforcement of tool control
 - F.O.D. (Foreign Object Debris) is a BIG deal when working around aircraft
 - All experimenters should bring their own tools
 - All tools should be inventoried prior to arrival and this list kept with toolbox for inspection
 - Any lost tools could ground the aircraft until found
- Cameras/video cameras are welcomed



Public Use Aircraft Flight Disclaimer

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If you will be flying on the NASA P-3 or any other public use aircraft your health and/or life insurance may not cover you during the flight in the event of a mishap. Please check with insurance providers before flying aboard any public use aircraft. Official NASA disclaimer located in NASA *Aircraft Operations Management Manual* NPR 7900.3B Appendix B pages 96 and 97.





P-3B Orion Aircraft

P-3B Orion Aircraft & Hanger Introduction

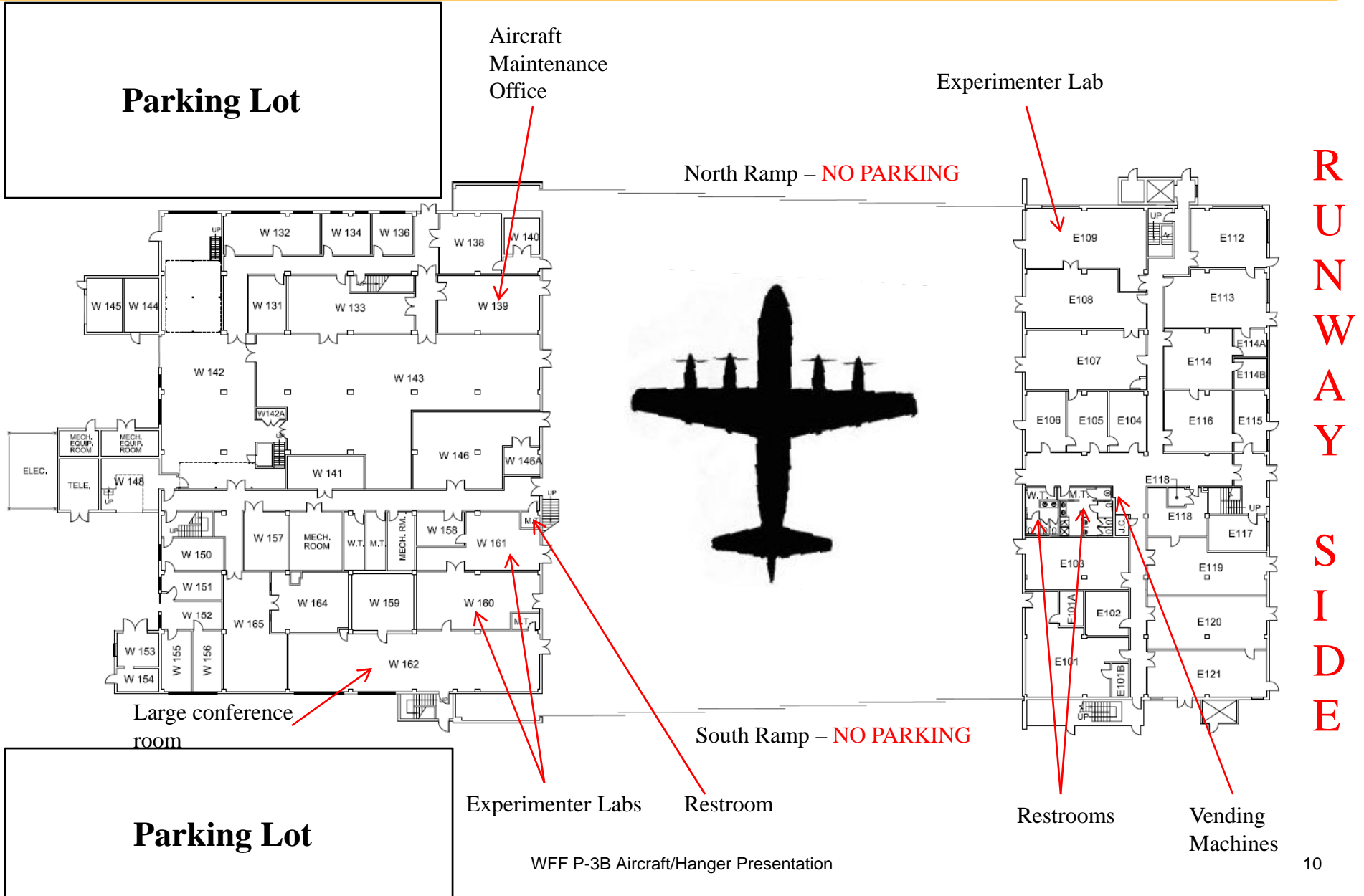
- P-3B Orion Aircraft
 - Former Navy anti-submarine and surveillance plane
 - Built mid-1960's by Lockheed Martin
 - Wing span – 99 feet 8 inches
 - Length – 110 feet 10 inches
 - Height – 34 feet 3 inches
 - Four T56-A-14 turboprop engines
 - Extensively modified for NASA science use
 - 2 bomb bay ports
 - Nose radome port
 - Tailcone port
 - 1 16" dia. zenith port
 - 3 nadir ports
 - Wingtip mounts
 - 4 P-3 bubble and 3 DC-8 passenger windows
 - 115V 60Hz and 400Hz power along with 28VDC
 - Lavatory and galley on board
 - Max. altitude: 28,000 feet
 - Max. endurance time: 12 hours (~3,800 miles)
 - Payload capacity: ~15,000 lbs
 - Max. crew: 24 persons





N-159 Aircraft Hanger

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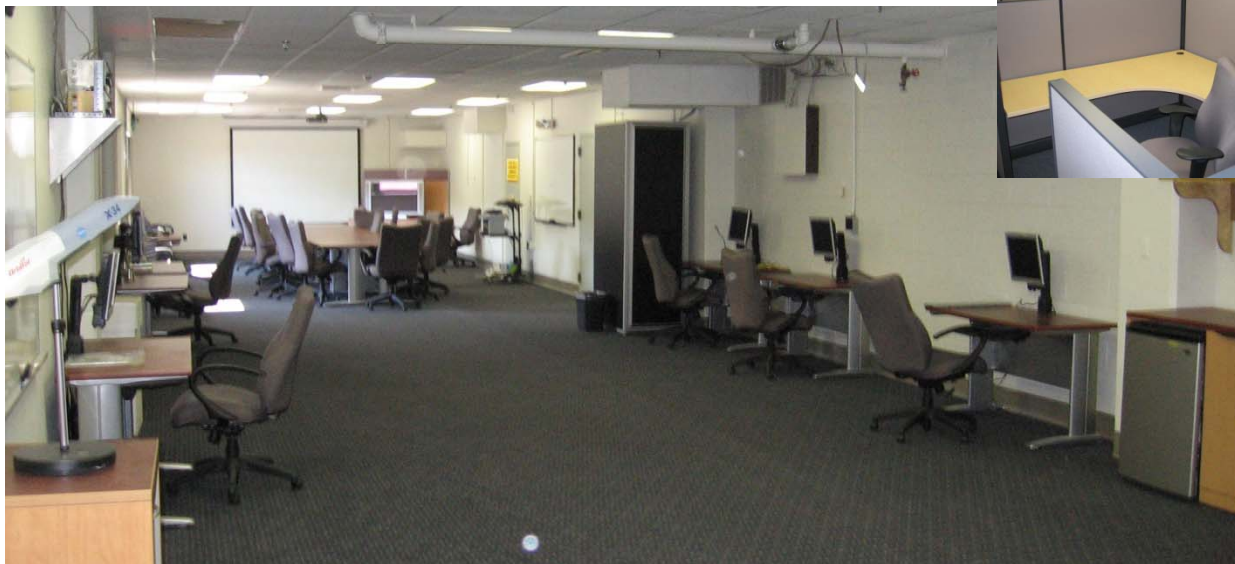




Experimenter Rooms

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- 4 experimenter rooms available on non-interference basis
 - W162 Conference room/office space (1,685 sq. ft)
 - W161 Experimenter office/lab space (568 sq. ft)
 - W160 and E109 experimenter labs (742 and 871 sq. ft)
 - Phone, fax, and wireless internet available
 - Refrigerator/microwave/coffee pot in W162 and W161
 - Large screen TV's and white boards available
 - Lab benches, tables, chairs available





P-3B Aircraft Contact Information

P-3B Orion Aircraft & Hanger Introduction

- If you have any questions please contact the following individuals:

- **George Postell**

Chief of Aircraft Office / P-3 Pilot

Phone: 757-824-1529

Fax: 757-824-2135

Email: George.W.Postell@nasa.gov

- **Anthony Guillory**

Airborne Science Manager

Phone: 757-824-2161

Fax: 757-824-2135

Email: Anthony.Guillory@nasa.gov

- **John Valliant/Dave Easmunt**

P-3B Mission Managers

Phone: 757-824-1422/1376

Fax: 757-824-2135

Email: John.Valliant-1@nasa.gov

Email: David.P.Easmunt@nasa.gov

- **Michael Cropper**

P-3B Ops Engineer

Phone: 757-824-2140

Fax: 757-824-1997

Email: Michael.C.Cropper@nasa.gov

- **Jeff Sigrist**

Maintenance Lead

Phone: 757-824-1919

Fax: 757-824-1843

Email: Jeffrey.L.Sigrist@nasa.gov

- **Rich Rogers**

Deputy Aircraft Office Chief / P-3 Pilot

Phone: 757-824-1403

Fax: 757-824-2135

Email: Rich.Rogers@nasa.gov

- **Ed Sudendorf**

Chief of Maintenance and Quality Assurance

Phone: 757-824-1240

Fax: 757-823-1250

Email: Edward.W.Sudendorf@nasa.gov

- **Shane Dover**

Aviation Safety Officer / P-3 Pilot

Phone: 757-824-2419

Fax: 757-824-2135

Email: Shane.Dover@nasa.gov



Local Information





Shipping and Phone Usage for Experimenters

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- To receive shipments on base use the following address:

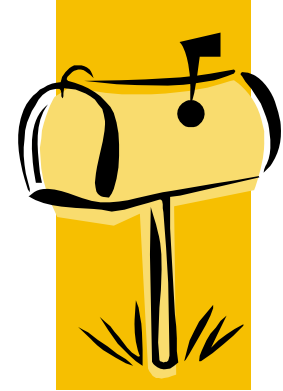
NASA Wallops Flight Facility

Attn: AIRTEC Inc. c/o Jeff Sigrist

Bldg. N-159 Room W139

Wallops Island, VA 23337

Phone: 757-824-1919



Note: If non-NASA property is begin shipped please indicate on package who property belongs too (institution/agency/company/etc.)

- To use the telephone on base:
 - Internal base/island calls: dial last for digits of number (ex. 2424)
 - Local calls: dial “9” then 7 digit number (local calls only begin with “824-xxxx”)
 - Long distance calls: dial “9” then “1” then area code plus phone number
 - Dial “55” to access base-wide PA system





NASA Wallops Main Base Services

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- NASA Federal Credit Union: Bldg. N-133; Mon.-Thurs. 8:30AM-3:30PM; Fri. 8:30AM-5:00PM (ATM machine located outside)
- Cafeteria: Bldg. E-2; menu phone number: x2424
 - 7AM to 9AM Breakfast
 - 11AM to 1PM Lunch
 - No Dinner
- Gymnasium with weight lifting and exercise room: Bldg. D-10
- Post Office: Bldg. E-7; 10AM-3:30PM
- Technical Library: Bldg. E-105; 8AM-4:30PM
- Rocket Club Bar: Bldg. F-3; 4:30PM to 11PM
- 24/7 fire and ambulance services
- Medical Clinic: Bldg. F-160; 8AM -4:30PM (ext. 1266)
- Base exchange: Bldg. E-2; gift shop, small convenience store



Local Food and Services

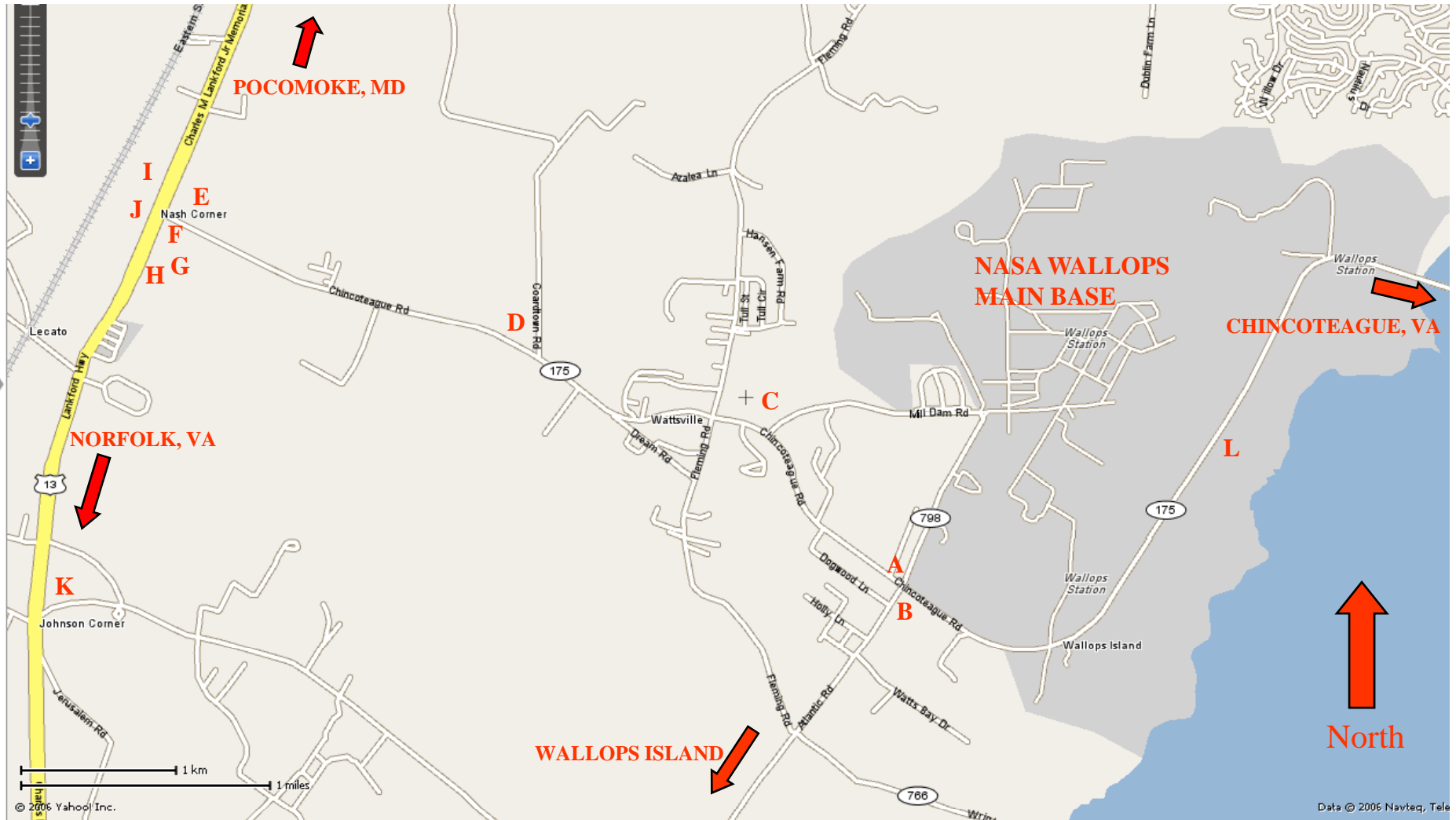
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- **Just outside the main gate:** (<1/4 mi. from main gate, walking distance)
 - Royal Farms gas station and convenience store
 - Ocean Deli
 - Corner Mart gas station and convenience store
- **Oak Hall, VA:** (3 miles west of main gate on Rt. 13)
 - Several eating places (Subway, Pizza Hut, Sonics Drive In, etc.)
 - Grocery Store: Food Lion
 - Gas Station: Corner Mart and T's Corner
- **Chincoteague, VA:** (5 miles east of main gate on Rt. 175)
 - Various local restaurants and stores along with McDonald's
 - <http://www.chincoteague.com/>
- **Pocomoke, MD:** (10 miles north of main gate on Rt. 13)
 - Various local restaurants and fast food (Arby's, Hardee's, Bonanza, McDonald's, Friendly's, KFC, etc.)
 - Walmart
 - Lowe's
 - Radio Shack
 - <http://www.pocomoke.com/>
- **Salisbury, MD:** (30 miles north of main gate on Rt. 13)
 - Nearest city with standard city services
 - <http://www.salisburymd.com/>



Local Business Locations

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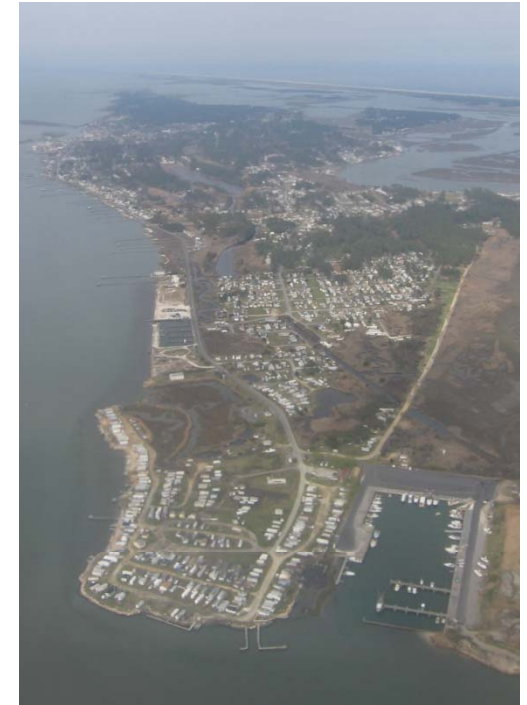
Note: Map key on next slide



Map Key to Previous Slide

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- A - Ocean Deli: sandwich shop and convenience store
- B - Royal Farms: gas station and convenience store
- C - Corner Mart: gas station and convenience store
- D - Ray's Shanty: local seafood restaurant
- E - Pizza Hut
- F - T's Corner: gas station and convenience store
- G - Food Lion
- H - Sonic's Drive In
- I - Corner Mart: Gas station and convenience store
- J - Subway
- K - Sub Station: sandwich shop and convenience store
- L - NASA Wallops Visitor Center and gift shop



Chincoteague Island, VA



Local Hotels and Phone Numbers

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- Chincoteague Island, VA (5 miles east of Wallops on Rt. 175)
 - Comfort Suites: 757-336-7500
 - Hampton Inn and Suites: 757-336-1616
 - Best Western: 757-336-6557
 - Waterside Inn: 877-870-3434
 - The Blue Heron Inn: 800-615-6343
- Pocomoke, MD (10 miles north of Wallops on Rt. 13)
 - Holiday Inn Express: 888-400-9714
 - Days Inn: 410-957-3000
 - Quality Inn: 410-957-1300
- Onley, VA (25 miles south of Wallops on Rt. 13)
 - Comfort Inn: 757-787-7787





Local Attractions

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- Eastern Shore Attractions
 - <http://www.esvachamber.org/>
 - <http://www.esvatourism.org/home.asp>
 - <http://www.easternshorevirginiaportal.com/>
- Wallops Island
 - 8 miles south of Main Base (~ 10 minute drive)
 - Recreation beaches open to everyone (special island badge not needed)
 - Mon.-Fri. 4:30PM to Dusk and Dawn to Dusk on Saturday and Sundays
- Chincoteague Island
 - 7 miles east Of Wallops (~15 minute drive)
 - Chincoteague Fireman's Carnival (every weekend and last full week in July, fireworks on July 4th)
 - Chincoteague Pony Swim and Auction (last Wednesday and Thursday in July)
 - Connects to Assateague Island National Seashore: <http://www.nps.gov/asis/>
 - <http://www.chincoteague.com/>
- Salisbury, Maryland
 - 30 miles north of Wallops (~45 minute drive)
 - Plenty of shopping (including a mall) and restaurants
 - Regal movie theatres
 - <http://www.salisburymd.com/>



Nearby Attractions/ Weekend Trips

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- Ocean City, Maryland
 - 60 miles north of Wallops (~1.5 hour drive)
 - Beach Boardwalk with rides, shops, and restaurants
 - LOTS of options for beaches and beach activities
 - <http://www.ocean-city.com/>
- Hampton Roads Area of Virginia
 - 100 miles to south of Wallops (~2.5 hour drive)
 - Museums, clubs, beaches, historical sites, amusement parks
 - Suggested sites:
 - Virginia Air and Space Center, Hampton, VA
 - Nauticus, Norfolk, VA
 - Virginia Beach beachfront
 - Colonial Williamsburg, Yorktown Battlefield, Jamestown Colony
 - <http://www.hamptonroads.com/travel/visitors/>
- Washington D.C.
 - 155 miles northwest of Wallops (~ 3.5 hour drive)
 - Historical sites, museums, clubs, outdoor activities, amusement parks, and all other manner of activities associated with a heavily urban area
 - Suggested sites:
 - National Mall (Washington Monument, White House, War Memorials, Lincoln Memorial, etc.)
 - Smithsonian Museums- free and VERY good (Air and Space, Natural History, etc.)
 - <http://www.washington.org>

